

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



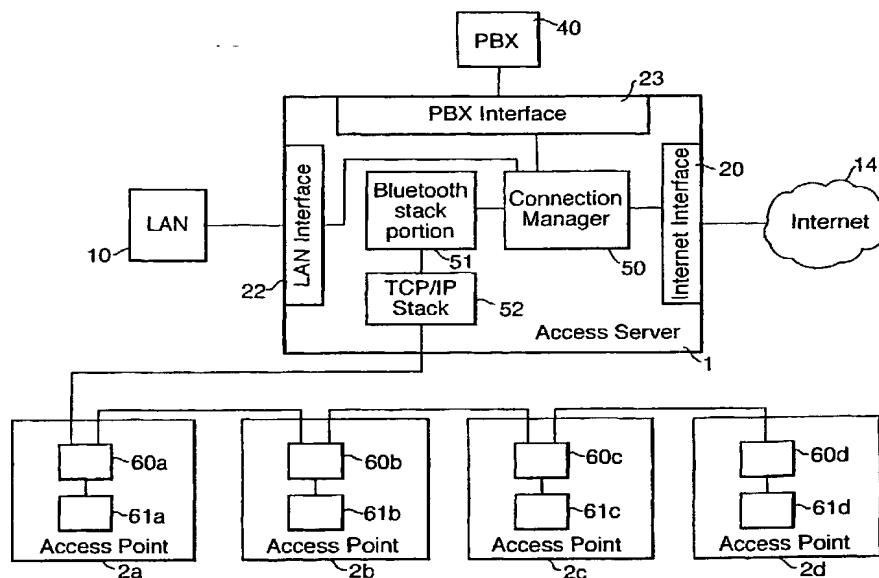
(43) International Publication Date
20 December 2001 (20.12.2001)

PCT

(10) International Publication Number
WO 01/97465 A1

- (51) International Patent Classification⁷: **H04L 12/56**
- (21) International Application Number: PCT/GB01/02586
- (22) International Filing Date: 13 June 2001 (13.06.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0014431.1 13 June 2000 (13.06.2000) GB
0029534.5 4 December 2000 (04.12.2000) GB
- (71) Applicant (for all designated States except US): **RED-M (COMMUNICATIONS) LIMITED** [GB/GB]; Wexham Springs, Framewood Road, Wexham, Slough SL3 6PJ (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **MOSS, Nick** [GB/GB]; 36 Woodlands Road, Harrow, Middlesex HA1 2RS (GB).
- (74) Agent: **GILL JENNINGS & EVERY**; Broadgate House, 7 Eldon Street, London EC2M 7LH (GB).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DISTRIBUTED BLUETOOTH COMMUNICATIONS NETWORK



(57) Abstract: The present invention provides a system in which a number of independent nodes in a communications network are connected in series to a server controlling the nodes. Each node in the network is capable of independently transmitting and receiving data over a wireless connection. In a preferred embodiment this is achieved by splitting the processing stack between the nodes and the server. Furthermore, in the present invention the server includes a power supply which is coupled to the nodes via the communications link. The power is transferred from the power supply to the nodes via the series communications link. This further simplifies the wiring required for the communications system.

WO 01/97465 A1